<u>WHAT IS CLAIMED IS:</u>

An arrangement of a tool insertable into the mouth of a house for the care and maintenance of teeth while providing protection of soft tissue within the mouth of the horse and comprising in combination:

an electric rotary motor having a means to hold said tool along the axis
of rotation of said motor, said tool having a tooth cutting surface of a
preselected size and shape;

a shaft having one end mounted to said cutting surface and the other end attachable to said motor holding means thereby supplying rotational motion to said tool;

a shaft support means through which said shaft may be removably inserted;

a hand piece having a channel through which said shaft support means is removably insertable; and,

a cutting surface guard fabricated as a portion of said hand piece and shaped to be in encircling relation about a selected portion of said cutting surface thereby exposing only a portion of said cutting surface under the condition of said shaft support means, having said shaft inserted therein, is mounted within said shaft support channel of said hand piece and said shaft engaged within said holding means thereby allowing a user of the arrangement to guide said hand piece containing the partially guarded tool into the mouth of the horse to separate said soft tissue from a preselected portion of a tooth with said cutting surface guard and position the unguarded portion of said cutting surface against a tooth to remove a selection portion of said tooth by means of said tool in rotary motion.

2 (First Amended). An arrangement of a tool insertable into the mouth of a house for the care and maintenance of teeth while providing protection of soft tissue within the mouth of the horse and comprising in combination:

1	an electric rotary motor having a means to hold said tool along the axis
2	of rotation of said motor, said tool having a tooth cutting surface of a
3	preselected size and shape;
4	a shaft having one end mounted to said cutting surface and the other
5	end attachable to said motor holding means thereby supplying
6	rotational motion to said tool;
7	a shaft support means through which said shaft may be removably
8	inserted(; The arrangement defined in claim 1 wherein) said shaft
9	support means further comprises a bearing mounted at a
0	preselected position within said shaft support means and a bearing
1	seal mounted at a position between said bearing and said cutting
2	surface through which said shaft may be inserted and supported for
3	rotary motion without binding(.);
4	a hand piece having a channel through which said shaft support means
5	is removably insertable; and,
6	a cutting surface guard fabricated as a portion of said hand piece and
7	shaped to be in encircling relation about a selected portion of said
8	cutting surface thereby exposing only a portion of said cutting
9	surface under the condition of said shaft support means, having said
20	shaft inserted therein, is mounted within said shaft support channel
21	of said hand piece and said shaft engaged within said holding means
22	thereby allowing a user of the arrangement to guide said hand piece
23	containing the partially guarded tool into the mouth of the horse to
24	separate said soft tissue from a preselected portion of a tooth with
25	said cutting surface guard and position the unguarded portion of
26	said cutting surface against a tooth to remove a selection portion of
27	said tooth by means of said tool in rotary motion.
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29	3. The arrangement defined in claim 2 (First amended) further
30	comprising a brass sleeve mountable around said shaft under the
31	condition of said shaft being inserted through said bearing and

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bearing seal into said shaft support means, said brass sleeve providing separation between said shaft and said shaft support means.

4. The arrangement defined in claim 1 further comprising a flexible shaft having one end adaptively mountable to said motor thereby supplying rotational motion to said flexible shaft and the other end having a means to hold said tool along the axis of rotation of the flexible shaft thereby separating said motor from said tool so that said motor may be supported at a position remote from said tool.

5. The arrangement defined in claim 1 further comprising preselected sized and shaped extended guards mountable to said cutting surface guard to provide additional separation between said cutting surface and said soft tissue within the mouth of the horse.

6. The arrangement defined in claim 1 wherein said hand piece further comprises an orifice formed near said cutting surface and a second channel one end in communication with said orifice, the other end adapted to be removably attachable to a vacuum source whereby the dust and debris created by the removal of a selected portion of a tooth may first enter said orifice and then said second channel to be sucked out of the mouth of the horse and deposited into said vacuum source.

7. (First amended) The arrangement in claim 2 (First Amended) wherein said shaft support means further comprises gearing means mounted within said shaft support means and in communication with said shaft to change the rotational motion of said shaft attached to said motor holding means into reciprocating



motion which may be applied to said cutting surface mounted on said shaft remote from said gearing means.

8. (First amended) The arrangement in claim 2 (First amended) wherein said shaft support means further comprises gearing means mounted within said shaft support means and in communication with said shaft to change the profile of the shaft by a preselected angle thereby increasing the range of placement of said cutting surface of said tool.

9. The arrangement in claim 4 wherein said adaptive mounting of said flexible shaft is to a motor owned by the user.

10. The arrangement in claim 4 wherein said means to hold said tool is a handle owned by the user, said flexible shaft having means to adaptively mount said handle on the end of said flexible shaft under the condition of said shaft mounted within said handle.

11. The arrangement in claim 4 further comprising a clutch mounted with one end in communication with said motor and another end remote from said motor in communicated with said flexible shaft thereby providing interruptible transmission of motion from said motor to said cutting surface in communication with said flexible shaft.

12. (First Amended) An arrangement of a tool insertable into the mouth of a house for the care and maintenance of teeth while providing protection of soft tissue within the mouth of the horse and comprising in combination:

1	an electric rotary motor having a means to hold said tool along the axis
2	of rotation of said motor, said tool having a tooth cutting surface of a
3	preselected size and shape;
4	a shaft having one end mounted to said cutting surface and the other
5	end attachable to said motor holding means thereby supplying
6	rotational motion to said tool;
7	a shaft support means through which said shaft may be removably
8	inserted;
9	a hand piece having a channel through which said shaft support means
0	is removably insertable; and,
1	a cutting surface guard fabricated as a portion of said hand piece and
2	shaped to be in encircling relation about a selected portion of said
3	cutting surface thereby exposing only a portion of said cutting
4	surface under the condition of said shaft support means, having said
15	shaft inserted therein, is mounted within said shaft support channel
6	of said hand piece and said shaft engaged within said holding means
17	thereby allowing a user of the arrangement to guide said hand piece
18	containing the partially guarded tool into the mouth of the horse to
19	separate said soft tissue from a preselected portion of a tooth with
20	said cutting surface guard and position the unguarded portion of
21	said cutting surface against a tooth to remove a selection portion of
22	said tooth by means of said tool in rotary motion;
23	a flexible shaft having one end adaptively mountable to said motor
24	thereby supplying rotational motion to said flexible shaft and the
25	other end having a means to hold said tool along the axis of rotation
26	of the flexible shaft thereby separating said motor from said tool so
27	that said motor may be supported at a position remote from said
28	tool; and,
29	a clutch mounted with one end in communication with said motor and
30	another end remote from said motor in communicated with said
1	flevible shaft thereby providing interruptible transmission of motion

1	from said motor to said cutting surface in communication with said
2	flexible shaft(.), (The arrangement in claim 11) wherein said clutch
3	further comprises means to adjust the threshold of torque at which
4	said motion is interrupted.
5	•
6	13 (First amended) The arrangement in claim 12 (First amended)
7	further comprising a clutch housing mountable to said motor
8	thereby enclosing said clutch and having a mounting to retain one
9	end of said flexible shaft in communication with said clutch, said
10	clutch housing having an means for access by the user to the
11	means to adjust the torque.
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13	14. The arrangement in claim 1 wherein said hand piece and guard
14	are fabricated from aluminum.
15	•
16	15. The arrangement in claim 14 wherein the exposed surfaces of said
17	aluminum are anodized.
18	
19	16.An electric motor powered arrangement insertable into the mouth
20	of a horse for the care and maintenance of equine teeth while
21	providing protection of soft tissue within the mouth of the horse
22	and comprising in combination:
23	a tool having a tooth material removal surface;
24	a shaft having a first end mounted to said tool and a second end
25	attachable to said electric motor whereby said tooth material
26	removal surface has a powered motion;
27	a hand piece fabricated with an internal shaft channel;
28	a bearing support sleeve;
29	at least one bearing mounted within said support sleeve at a
30	preselected position whereby said bearing accepts the insertion of
31	said shaft through said bearing thereby exposing the end of said

shaft remote from said tooth removal surface, said bearing support
sleeve mounted with said internal shaft channel whereby said
exposed end of said shaft is attachable to said electric motor, said
bearing providing support for said shaft under the condition of said
tooth material removal surface tool being guided into contact with a
preselected tooth and pressed against the tooth until a preselected
portion of the tooth is removed while said tooth material removal
surface is under powered motion;

- a protective shield fabricated as part of said hand piece at a preselected position and shaped to expose a preselected portion of said tooth material removal surface of said tool retained within said hand piece, said exposed portion guided into contact with a preselected portion of the tooth whereby the remaining non-exposed surface is separated from other portions of the horses mouth including said soft tissue; and,
- a sleeve mountable over said shaft within said shaft hand piece whereby said sleeve provides additional bearing means between said shaft and said hand piece without binding.

17. The arrangement defined in claim 16 wherein said bearing support sleeve means further comprises a bearing mounted at a preselected position within said bearing support sleeve and a bearing seal mounted at a position between said bearing and said cutting surface through which said shaft may be inserted and supported for rotary motion without binding.

18. The arrangement defined in claim 16 further comprising a flexible shaft having one end adaptively mountable to said motor thereby supplying rotational motion to said flexible shaft and the other end having a means to hold said tool along the axis of rotation of the



flexible shaft thereby separating said motor from said tool so that said motor may be supported at a position remote from said tool.

19. The arrangement defined in claim 16 further comprising preselected sized and shaped extended guards mountable to said cutting surface guard to provide additional separation between said cutting surface and said soft tissue within the mouth of the horse.

20. The arrangement defined in claim 19 wherein said extended guard further comprises an orifice formed near said cutting surface and a vacuum channel one end of which is in communication with said orifice, the other end of said vacuum channel adapted to be removably attachable to a vacuum source whereby the dust and debris created by the removal of a selected portion of a tooth may first enter said orifice and then said channel to be sucked out of the mouth of the horse and deposited into said vacuum source.

21. The arrangement in claim 16 wherein said bearing support sleeve further comprises gearing means mounted within said bearing support sleeve and in communication with said shaft to change the rotational motion of said shaft attached to said motor holding means into reciprocating motion which may be applied to said cutting surface mounted on said shaft remote from said gearing means.

22. The arrangement in claim 16 wherein said bearing support sleeve further comprises gearing means mounted within said bearing support sleeve and in communication with said shaft to change the profile of the shaft by a preselected angle thereby increasing the range of placement of said cutting surface of said tool.

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2	23. The arrangement in claim 18 wherein said adaptive mounting of
3	said flexible shaft is to a motor owned by the user.
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5	24. The arrangement in claim 18 wherein said means to hold said tool
6	is a handle owned by the user, said flexible shaft having means to
7	adaptively mount said handle on the end of said flexible shaft
8	under the condition of said shaft mounted within said handle.
9	
10	25. The arrangement in claim 18 further comprising a clutch mounted
11	with one end in communication with said motor and another end
12	remote from said motor in communicated with said flexible shaft
13	thereby providing interruptible transmission of motion from said
14	motor to said cutting surface in communication with said flexible
15	shaft.
16	
17	26. The arrangement in claim 25 wherein said clutch further
18	comprises means to adjust the threshold of torque at which said
19	motion is interrupted.
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21	27. The arrangement in claim 26 further comprising a clutch housing
22	mountable to said motor thereby enclosing said clutch and having
23	a mounting to retain one end of said flexible shaft in
24	communication with said clutch, said clutch housing having an
25	means for access by the user to the means to adjust the torque.
26	
27	28. The arrangement in claim 16 wherein said hand piece and guard
28	are fabricated from aluminum.
29	
30	29. The arrangement in claim 28 wherein the exposed surfaces of said
31	aluminum are anodized.

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